## LISTING OF CLAIMS

1-102. (Canceled)

- (Currently amended) The display of claim 106, said separator defining comprising an inherent mask between respective picture elements.
- 104. (Previously presented) The display of claim 103, said plural picture elements comprising volumes of Ilquid crystal in a medium, said liquid crystal and medium being cooperative for selective operation to scatter or absorb light or to reduce such scattering or absorption.
- 105. (Currently amended) A liquid crystal display for a Schlieren projection display system, comprising:

a liquid-crystal display, comprising

plural liquid crystal picture elements selectively operable to affect light by scattering or absorbing light or by reducing such scattering or absorption of light; , and

a separator integral with and between respective picture elements, said separator being substantially non-selectively operable to affect light, and defines comprising an inherent mask of lateral spacers including spacer means between respective picture elements thereby forming a grid of spacers and picture elements; <u>and</u> [[,]]

plural electrodes electrical drive means in spaced relation for selectively applying electrical input to respective picture elements; wherein: [[,]]

> said spacer means being located in relation to the space between respective electrical drive means,

> said liquid crystal picture elements comprising liquid crystal and a medium that are cooperative for selective operation to scatter light for projection or to reduce such scattering or absorption, and

said inherent mask <del>comprising a mask between respective picture</del> <del>elements for transmitting transmits</del> light <u>between respective picture</u> <u>elements</u> without substantial scattering.

106. (Currently amended) A liquid crystal display, comprising:

plural liquid crystal picture elements selectively operable to affect light by
scattering or absorbing light or by reducing such scattering or absorption of light; , and

a separator integral with and between respective picture elements, said separator being substantially non-selectively operable to affect light, <u>and</u> said separator comprising <u>lateral spacers</u> spacer means between respective picture elements <u>thereby</u> forming a grid of spacers and picture elements: <u>and</u> [[,]]

plural <u>electrodes</u> <del>electrical drive means</del> in spaced relation for selectively applying electrical input to respective picture elements; <u>wherein</u> [[,]]

said <u>spacers</u> <del>spacer means</del> being located in relation to the space between respective <u>electrodes</u> <del>electrical drive means</del>.

107-113. (Canceled)

114. (Currently amended) A liquid crystal display system, comprising a substrate having plural <u>electrodes</u> <del>electronic drive elements</del> in spaced apart relation,

plural volumes of liquid crystal in a medium, said volumes of liquid crystal arranged in overlying relation to respective <u>electrodes</u> <u>electronic drive elements</u>, said volumes of liquid crystal being selectively operable to scatter light or to transmit light without substantial scattering.

a mask between respective groups of volumes of liquid crystal, said mask being in overlying relation to said substrate and between respective electrodes such that the mask covers said substrate at least substantially up to a lateral boundary of each electrode electronic drive elements.

- 115. (Previously presented) The system of claim 114, said mask being substantially transparent.
- 116. (Previously presented) The system of claim 114, said mask being substantially non-scattering, said volumes being operative to scatter light in the absence of a prescribed input, and said volumes being operative to reduce scattering in response to a prescribed input.
- 117. (Currently amended) The system of claim 114, wherein said liquid crystal comprises liquid crystal material having a birefringence of in the range of from about 0.12 to less than about 0.12 or less.
- 118. (Currently amended) The system of claim 114, wherein said liquid crystal display device includes a medium having plural volumes containing the liquid crystal material, an controls the angle of the light scattering being as a function of the size of the volumes, and wherein the size of the volumes is in the range of from about 5 microns to less than about 5 microns or less.
- 119. (Currently amended) The system of claim [[117]] 114, wherein said liquid crystal comprises liquid crystal material having a the birefringence between of the liquid crystal is in the range of from about 0.04 to about 0.08.
- 120. (Previously presented) The system of claim 114, wherein the volumes of liquid crystal comprise liquid crystal material of relatively low birefringence in a medium that has surfaces to cause scattering of light in the absence of a prescribed input and reduces scattering in response to the prescribed input, wherein the surfaces interact with the liquid crystal material to cause scattering of light, and wherein the surfaces interact with the liquid crystal material to cause scattering of light due to a difference

between the extraordinary index of refraction of the liquid crystal material and the index of refraction of the material of the surfaces.

- 121. (Previously presented) The system of claim 114, wherein the ordinary index of refraction of the liquid crystal is substantially matched to the index of refraction of the medium, and wherein the liquid crystal has positive dielectric anisotropy.
- 122. (Previously presented) The system of claim 114, wherein the liquid crystal is operationally nematic, operationally smectic or cholesteric.

123-125. (Canceled)

126. (Currently amended) The display of claim 106, wherein electrical components for driving the electrodes are at least partly vertically aligned with said picture elements being arranged in side by side relation, the electrical drive means being at least partly in the space between adjacent picture elements, and said separator being in said space overlying the electrical drive means the portions of the electrical components that are vertically aligned in the space to optically mask the portions of the electrical components that are vertically aligned with the space.

127-132. (Canceled)

- 133. (New) The liquid crystal display for a Schlieren projection display system of claim 105, wherein the integral separator is comprised of the medium of the liquid picture elements.
- 134. (New) The liquid crystal display for a Schlieren projection display system of claim 105, wherein the Integral separator is laterally in direct contact with the electrodes.

- 135. (New) The liquid crystal display for a Schlieren projection display system of claim 105, wherein the spacers of the separator cover a substrate of the liquid crystal display at least substantially up to a lateral boundary of each electrode.
- 136. (New) The liquid crystal display for a Schlieren projection display system of claim 105, wherein the inherent mask optically masks the space between respective electrodes by transmitting light without substantial scattering.
- 137. (New) The liquid crystal display for a Schlieren projection display system of claim 105, wherein electrical components for driving the electrodes are at least partly vertically aligned with the space between adjacent picture elements, and said separator overlying the portions of the electrical components that are vertically aligned in the space to optically mask the portions of the electrical components that are vertically aligned with the space.
- 138. (New) The liquid crystal display of claim 106, wherein the picture elements comprise liquid crystal and a medium, and the integral separator is comprised of the medium of the liquid picture elements.
- 139. (New) The liquid crystal display of claim 106, wherein the integral separator is laterally in direct contact with the electrodes.
- 140. (New) The liquid crystal display of claim 106, wherein the spacers of the separator cover a substrate of the liquid crystal display at least substantially up to a lateral boundary of each electrode.
- 141. (New) The liquid crystal display of claim 106, wherein the separator optically masks the space between respective electrodes by transmitting light without substantial scattering.

- 142. (New) The system of claim 114, wherein the mask is a separator comprised of the medium.
- 143. (New) The system of claim 114, wherein the mask is laterally in direct contact with the electrodes.
- 144. (New) The system of claim 114, wherein electrical components for driving the electrodes are at least partly vertically aligned with a space between adjacent picture elements, and the mask overlying the portions of the electrical components that are vertically aligned in the space to optically mask the portions of the electrical components that are vertically aligned with the space.
  - 145. (New) A liquid crystal display, comprising:
- a plurality of picture elements comprised of liquid crystal in a medium, each picture element separated from adjacent picture elements by portions of the medium that are substantially free of liquid crystal; and
- a plurality of electrodes disposed with respect to the picture elements to selectively apply electrical input to the picture elements.
- 146. (New) The liquid crystal display of claim 145, wherein electrical components for driving the electrodes are at least partly vertically aligned with a space between adjacent picture elements, and the portions of the medium that are substantially free of liquid crystal overlying the portions of the electrical components that are vertically aligned in the space to optically mask the portions of the electrical components that are vertically aligned with the space.
- 147. (New) The liquid crystal display of claim 145, wherein the picture elements are operative to scatter light or transmit light by reducing scattering based on

the electrical input, and the portions of the medium that are substantially free of liquid crystal are operative only to transmit light without substantial scattering.